(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



- 1981) A ANKORI NERSKA KOMERNI GOMERNE KOMERNE KOMERNE KOMERNE KOMERNE KOMERNE KOMERNE KOMERNE KOMERNE KOMERN

(43) International Publication Date 29 January 2004 (29.01.2004)

PCT

(10) International Publication Number WO 2004/009554 A1

(51) International Patent Classification⁷:

C07D 213/74

(21) International Application Number:

PCT/HR2003/000036

(22) International Filing Date:

7 July 2003 (07.07.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: P20020603A

19 July 2002 (19.07.2002) H

- (71) Applicant (for all designated States except US): PLIVA D.D. [HR/HR]; Ulica grada Vukovara 49, 10000 Zagreb (HR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FILIC, Darko [HR/HR]; Marice Baric 17, 10000 Zagreb (HR). DUMIC, Miljenko [HR/HR]; Ivane Brlic Mazuranic 4, 10000 Zagreb (HR). DANILOVSKI, Aleksandar [HR/HR]; Rastocine 4/VI, 51000 Rijeka (HR). KLEPIC, Bozena [HR/HR]; Petra Skoka 8, 10450 Jastrebarsko (HR). FISTRIC, Ines [HR/HR]; D. Bazjanca 15/VI, 10000 Zagreb (HR). MARINKOVIC, Marina [HR/HR]; Ulica Orhideja 5, 10360 Sesvete (HR). HORVAT-MIKULCIC, Jasna [HR/HR]; Trg Ivana Kukuljevica 11/21, 10000 Zagreb (HR).

- (74) Common Representative: PLIVA D.D.; Pravni Poslovi-Intelektualno Vlasnistvo, Povrzenic, Nives, Ulica grada Vukovara 49, 10000 Zagreb (HR).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR THE PREPARATION OF MODIFICATION I OF N-(1-METHYLETHYLAMINOCARBONYL)-4-(3-METHYLPHENYLAMINO)-3-PYRIDINESULFONAMIDE

(57) Abstract: The invention relates to a new process for the preparation of modification I of torasemide by precipitation with acids from an alkaline extract of the original reaction mixture of the last phase in the synthesis of torasemide.